

AMENDMENTS TO THE CLAIMS

Claims 1.-16 (Canceled)

17. (New) A detection system for detecting an object in a blind spot of a wing mirror unit comprising:

- an observation unit for generating observation data;
- a data processing unit for processing the observation data; and
- an indication unit for displaying a warning signal;

wherein internal data communication connections of the system are disposed in said wing mirror unit such that the detection system is autonomous.

18. (New) The detection system according to claim 17, including a slave unit connectible to a master-slave bus system.

19. (New) The detection system according to claim 17, including an actuator disposed on a supporting frame, wherein the actuator adjusts a mirror supporting plate provided with a mirror glass.

20. (New) The detection system according to claim 19, wherein the data processing unit is mounted on the actuator.

21. (New) The detection system according to claim 18, wherein the observation unit comprises an optical camera.

22. (New) The detection system according to claim 18, wherein the observation unit comprises a transmitter for generating an electromagnetic actuation signal and a receiver for receiving an electromagnetic reflection signal.

23. (New) The detection system according to claim 22, wherein the transmitter and the receiver are arranged to respectively generate and receive radar signals.

24. (New) The detection system according to claim 22, wherein the transmitter and the receiver are integrated.

25. (New) The detection system according to claim 19, comprising a mirror housing mounted on the supporting frame; wherein the observation unit is disposed within the mirror housing.

26. (New) The detection system according to claim 25, wherein the mirror housing substantially forms an exterior of said wing mirror unit.

27. (New) The detection system according to claim 19, wherein the observation unit is disposed on an actuator.

28. (New) The detection system according to claim 17, wherein the observation unit generates two electromagnetic actuation signals that spatially, at least partly, overlap each other.

29. (New) The detection system according to claim 17, further comprising a second observation unit for generating observation data in connection with a second blind spot.

30. (New) The detection system according to claim 29, wherein the observation data in connection with the second blind spot is generated or presented diagonally.

31. (New) The detection system according to claim 17, wherein the indication unit comprises an optical indicator.

32. (New) The detection system according to claim 31, wherein the optical indicator generates an optical signal and is disposed on a mirror supporting plate.

33. (New) The detection system according to claim 19, wherein the mirror glass comprises a semi-permeable optical material and a signal generated by the optical indicator passes through the semi-permeable optical material out of said wing mirror unit.

34. (New) An actuator unit comprising:
a supporting frame;
an actuator for adjusting a mirror supporting plate with respect to the supporting frame,
the mirror supporting plate including a mirror glass;
a data processing unit connected to or disposed on the actuator; and
an observation unit for detecting an object in a blind spot of a mirror unit, and
wherein the data processing unit processes observation data generated by the observation unit.

35. (New) A mirror system comprising:
a wing mirror; and
a detection system for detecting an object in a blind spot of the wing mirror, the
detection system including:
an observation unit for generating observation data;
a data processing unit for processing the observation data;
an indication unit for displaying a warning signal; and
an actuator disposed on a supporting frame,
wherein the actuator adjusts a mirror supporting plate; and
further wherein internal data communication connections of the detection system
are disposed in the wing mirror.

36. (New) The mirror system according to claim 35, including mirror glass
connected to the mirror supporting plate.

37. (New) The mirror system according to claim 36, wherein the observation unit
comprises an optical camera.

38. (New) The mirror system according to claim 37, wherein the observation unit
includes a transmitter and a receiver.

39. (New) The mirror system according to claim 38, wherein the transmitter and
the receiver generate and receive radar signals, respectively.

40. (New) The mirror unit according to claim 39, wherein the transmitter and the receiver form an integrated module.

41. (New) The mirror unit according to claim 35, wherein the observation unit generates one or more electromagnetic actuation signals which at least partially overlap one another.

42. (New) The mirror unit according to claim 35, further comprising a second observation unit for generating observation data in connection with a second blind spot.

43. (New) The mirror unit according to claim 35, further including an indication unit having an optical indicator for generating an optical signal.

44. (New) The mirror unit according to claim 38, wherein the mirror glass comprises a semi-permeable optical material, so that the optical signal generated by the optical indicator passes through the semi-permeable optical material.